



Installing on Windows (manual)

If you should ever need to install RabbitMQ manually, this is how to do it:

Download the Server

Description	Download	
Packaged for Windows systems (zip)	rabbitmq-server-windows-3.6.9.zip	(Signature)

Install Erlang

Run the **Erlang Windows Binary File**. Erlang will appear in the Start Menu, and `\erl.x.x\bin\erl.exe` will be in `C:\Program Files (x86)` or `C:\Program Files`, depending on your platform and whether you chose a 32bit or 64bit version of Erlang.

Set ERLANG_HOME

If you have an existing RabbitMQ installation with the broker running as a service and you installed an Erlang VM with a different architecture then you must uninstall the service before updating `ERLANG_HOME`.

Set `ERLANG_HOME` to where you actually put your Erlang installation, e.g. `C:\Program Files\erl.x.x` (full path). The RabbitMQ batch files expect to execute `%ERLANG_HOME%\bin\erl.exe`.

Go to Start > Settings > Control Panel > System > Advanced > Environment Variables. Create the system environment variable `ERLANG_HOME` and set it to the full path of the directory which contains `bin\erl.exe`.

Install RabbitMQ Server

Download `rabbitmq-server-windows-3.6.9.zip` from the link above.

From the zip file, extract the folder named `rabbitmq_server-3.6.9` into `C:\Program Files\RabbitMQ` (or somewhere suitable for application files).

Finding Command Scripts and App Data

Commands for RabbitMQ Server

Within the `rabbitmq_server-3.6.9\sbin` directory are some scripts which run commands to control the RabbitMQ server.

The RabbitMQ server can be run as either an application or service (not both).

rabbitmq-server.bat starts the broker as an application.

rabbitmq-service.bat manages the service and starts the broker.

rabbitmqctl.bat manages a running broker.

Log in as an administrator. To see the output, run these from a **Command Prompt** in the `sbin` directory.

Note: On Windows Vista (and later) you will need to **elevate privilege** (e.g. right-click on the icon to select Run as Administrator).

Find Commands Easily

Set up the system path so you can find the server and `sbin` directory easily.

Create a system environment variable (e.g. `RABBITMQ_SERVER`) for `"C:\Program Files\RabbitMQ\rabbitmq_server-3.6.9"`. Adjust this if you put `rabbitmq_server-3.6.9` elsewhere, or if you upgrade versions.

Append the literal string `";%RABBITMQ_SERVER%\sbin"` to your system path (aka `%PATH%`).

Now you can run `rabbitmq` commands from any (administrator) Command Prompt. You will need to navigate to `rabbitmq_server-3.6.9\sbin` to run commands if your system path does not contain the RabbitMQ `sbin` directory.

Synchronise Erlang Cookies (when running a manually installed Windows Service)

Erlang Security Cookies used by the service account and the user running `rabbitmqctl.bat` must be synchronised for `rabbitmqctl.bat` to function.

To ensure Erlang cookie files contain the same string, copy the `.erlang.cookie` file from the Windows directory (normally `C:\WINDOWS\.erlang.cookie`) to replace the user `.erlang.cookie`. The user cookie will be in the user's home directory (`%HOMEDRIVE%%HOMEPATH%`), e.g.

`C:\Documents and Settings\%USERNAME%\erlang.cookie` or
`C:\Users\%USERNAME%\erlang.cookie` (Windows Vista and later).

Finding Application Data

By default, the RabbitMQ logs and Mnesia database are stored in the current user's Application Data directory e.g. `C:\Documents and Settings\%USERNAME%\Application Data` or

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C:\Users\%USERNAME%\AppData\Roaming (Windows Vista and later).

Execute `echo %APPDATA%` at a Command Prompt to find this directory. Alternatively,
Start > Run `%APPDATA%` will open this folder.

Running RabbitMQ Server as an Application

The application is started by the `rabbitmq-server.bat` script in `sbin`.

Customise RabbitMQ Server Environment Variables

Environment variable defaults are set within the `rabbitmq-server.bat` file. You may need to **customise environment variables** for your installation.

Start the Broker as an Application

Run the command

```
rabbitmq-server -detached
```

Alternatively, you can double-click the `rabbitmq-server.bat` file in Windows Explorer.

If you start by double-clicking, a Command Prompt window opens, displays a short banner message, concluding with the message "completed with [n] plugins.", indicating that the RabbitMQ broker has been started successfully.

If you started without the `-detached` option, e.g. by double-clicking, you will need a second Command Prompt window to control the application cleanly. *Note:* Closing the original Command Prompt window will forcefully shut down a server started this way.

Stop or Manage the Broker

`rabbitmq-server` only starts the broker. To **manage the broker** use `rabbitmqctl` commands.

Running RabbitMQ Server as a Service

The service will run in the security context of the system account without the need for a user to be logged in on a console. This is normally more appropriate for production use. The server should not be run as a service and application simultaneously.

The service runs using the `rabbitmq-service.bat` script in `sbin`.

Customise RabbitMQ Service Environment Variables

Note: After setting environment variables, you may need to install the service again.

The `rabbitmq-service.bat` script recognises many of the same **environment variables** as `rabbitmq-server.bat`, as well as a few additional service environment variables.

Install the Service

Install the service by running

```
rabbitmq-service install
```

A service with the name defined by `RABBITMQ_SERVICENAME` should now appear in the Windows Services control panel (Start > Run `services.msc`).

Managing the Service

To manage the service (install, remove, start, stop, enable, disable), use `rabbitmq-service.bat` commands. You can also use the Windows Services panel (`services.msc`) to perform some of the same functions as the service script.

Start the Broker as a Service

To start the broker, execute

```
rabbitmq-service start
```

If the output from this command is "Service `RABBITMQ_SERVICENAME` started", then the service was started correctly.

Confirm the service named `RABBITMQ_SERVICENAME` reports a "Started" status in Services:
Start > Run `services.msc`.

Port Access

Firewalls and other security tools may prevent RabbitMQ from binding to a port. When that happens, RabbitMQ will fail to start. Make sure the following ports can be opened:

4369: **epmd**, a peer discovery service used by RabbitMQ nodes and CLI tools

5672, 5671: used by AMQP 0-9-1 and 1.0 clients without and with TLS

25672: used by Erlang distribution for inter-node and CLI tools communication and is allocated from a dynamic range (limited to a single port by default, computed as AMQP port + 20000). See **networking guide** for details.

15672: **HTTP API** clients and **rabbitmqadmin** (only if the **management plugin** is enabled)

61613, 61614: **STOMP clients** without and with TLS (only if the **STOMP plugin** is enabled)

1883, 8883: (**MQTT clients** without and with TLS, if the **MQTT plugin** is enabled)

15674: STOMP-over-WebSockets clients (only if the **Web STOMP plugin** is enabled)

15675: MQTT-over-WebSockets clients (only if the **Web MQTT plugin** is enabled)

It is possible to **configure RabbitMQ** to use different ports.

Default user access

The broker creates a user `guest` with password `guest`. Unconfigured clients will in general use these credentials. **By default, these credentials can only be used when connecting to the broker as localhost** so you will need to take action before connecting from any other machine.

See the documentation on **access control** for information on how to create more users, delete the `guest` user, or allow remote access to the `guest` user.

Managing the Broker

To stop the broker or check its status, use `rabbitmqctl.bat` in `sbin` (as an administrator).

Stopping the Broker

Use `rabbitmqctl stop`.

Checking the Broker Status

Use `rabbitmqctl status`. All `rabbitmqctl` commands will report the node absence if no broker is running (i.e. `nodedown`).

More **info on rabbitmqctl**

Logging

Output from the server is sent to a `RABBITMQ_NODENAME.log` file in the `RABBITMQ_LOG_BASE` directory. Additional log data is written to `RABBITMQ_NODENAME-sasl.log`.

The broker always appends to the log files, so a complete log history is retained.

You can rotate logs using `rabbitmqctl rotate_logs`.

Troubleshooting When Running as a Service

In the event that the Erlang VM crashes whilst RabbitMQ is running as a service, rather than writing the crash dump to the current directory (which doesn't make sense for a service) it is written to an `erl_crash.dump` file in the base directory of the RabbitMQ server (set by the `RABBITMQ_BASE` environment variable, defaulting to `%APPDATA%\%RABBITMQ_SERVICE_NAME%` - typically `%APPDATA%\RabbitMQ` otherwise).

Windows-specific Issues

We aim to make RabbitMQ a first-class citizen on Windows. However, sometimes there are circumstances beyond our control. Please consult the **Windows-specific Issues** page.

Getting Help

If you have questions or need help, feel free to ask on **RabbitMQ mailing list**.

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